

Application Story – Oil and Gas in US



An exploration and production company focused on the extraction of oil and associated liquids - rich natural gas in the United States.

Process details

Medium: Crude Oil with entrained air
 Flowrate: 0 to 600 BPD
 Temperature: Outdoor Temperatures in US
 Pressure: 70 psig
 Output: MODBUS and Active Pulse
 Approval: cFMus Class 1 Div 1



When crude oil is extracted it goes into a separator to separate the oil/water/gas. The meters are used on the oil outlet lines right before a snap acting dump valve. The separator operates at 40 psig and when the dump valve opens to atmospheric pressure it causes flashing. The OPTIMASS 6400's are required as there is always gas entrained right when they open.

The OPTIMASS 6400C S25 – with ANSI 150# flanges

They have installed Micromotion units on the same application. But in order for them to work, they need to replace the snap action valve with a throttling valve and they need an additional orifice plate downstream to increase the back pressure and prevent flashing. Customer is very satisfied with the product since their first order of [20] units. In the first year alone they ordered over 300 units. They are also very excited that they can use our OPTIMASS to actually troubleshoot their separators. If there is too much gas in the line when the dump valve opens they can close it and let the tank settle more. So OPTIMASS with EGM and the density reading helps determine an accurate holding time, which is beneficial for their process.

For additional information, please contact
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